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Substitution for form 1449/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;"><i>(Use as many sheets as necessary)</i></p>				Complete if known	
				Application Number	10/600,003-Conf. #6034
				Filing Date	June 18, 2003
				First Named Inventor	Dana M. Fowlkes
				Art Unit	1649
				Examiner Name	John D. Ulm
Sheet	1	of	11	Attorney Docket Number	60638CON3(50370)

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	† ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
/JU/	BA**	WO-8810308	12-29-1988	Whitehead Biomedical Inst		
/JU/	BB**	WO-9112273	08-22-1991	Zymogenetics Inc		
/JU/	BC**	WO-9530012	11-09-1995	Cadus Pharmaceutical Corp et al.		
/JU/	BD**	WO-9711159	03-27-1997	Heartland Biotechnologies L L et al.		
/JU/	BE**	WO-9205244	04-02-1992	Univ Duke		
/JU/	BG**	WO-9433935	10-13-1994	Cadus Pharmaceuticals Inc		
/JU/	BG**	WO-9613513	04-02-1998	Cadus Pharmaceutical Corp		

Examiner Signature	/John Ulm/	Date Considered	06/08/2009
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/JU/	CA**	Artemyev et al., "Sites of Interaction between Rod G-Protein α -Subunit and cGMP-Phosphodiesterase Gamma-Subunit," <i>The Journal of Biological Chemistry</i> , Vol. 267(35), pp.25067-25072 (1992)	
/JU/	CB**	Awramik et al., "New Fossil find in Old Rocks," <i>Nature</i> , Vol. 319, pp. 446-447 (1986)	
/JU/	CC**	Bender et al., "Pheromones and Pheromone Receptors are the Primary Determinants of Mating Specificity in the Yeast <i>Saccharomyces Cerevisiae</i> , <i>Genetics</i> , vol. 121, pp. 463-476 (1989)	
/JU/	CD**	Cavallini et al., "A Yeast Activity can Substitute for the HeLa Cell TATA box factor, <i>Nature</i> , Vol. 334, pp. 77-80 (1988)	
/JU/	CE**	Chan et al., "Isolation and Genetic Analysis of <i>Saccharomyces Cerevisiae</i> Mutants Supersensitive to G1 Arrest by a Factor and a Factor," <i>Molecular and Cellular Biology</i> , Vol. 13(1), pp. 1-8 (1993)	
/JU/	CF**	Chang et al., "Identification of a Gene Necessary for Cell Cycle Arrest by a Negative Growth Factor of Yeast: FAR1 is an inhibitor of a G1 Cyclin, CLN2," <i>Cell</i> , Vol. 63, pp. 999-1011 (1990)	
/JU/	CG**	Clark et al., "Interactions Among the Subunits of the G-Protein Involved in <i>Saccharomyces Cerevisiae</i> Mating," <i>Molecular and Cellular biology</i> , Vol. 13(1), pp. 1-8 (1993)	
/JU/	CH**	Coleman et al., "Structures of Active Conformation of G-1 α 1 and the Mechanism of GTP Hydrolysis," <i>Science</i> , Vol. 265, pp. 1405-1412 (1994)	
/JU/	CI**	Conklin et al., "Substitution of Three Amino Acids Switches Receptor Specificity of G-1 α to that of G-1 α ," <i>Nature</i> , 363, pp. 274-276 (1993)	
/JU/	CJ**	Dietzel et al., "The Yeast SCG1 Gene: A Ga-like Protein Implicated in the α - and α -Factor Response Pathway," <i>Cell</i> , Vol. 50, pp. 1001-1010 (1987)	

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/JU/	CK**	Dmochowska et al., "Yeast KEX1 Gene Encodes a Putative Protease with a Carboxypeptidase B-like Function Involved in Killer Toxin and a-Factor Precursor Processing," <i>Cell</i> , Vol. 50, pp. 573-584 (1987)	
/JU/	CL**	Etienne et al., "A Screening Method for Antifungal Substances using Saccharomyces Cerevisiae Strains Resistant to Polyene Macrolides," <i>The Journal of Antibiotics</i> , Vol. XLIII(2), pp. 199-206 (1990)	
/JU/	CM**	Fasullo et al., "Direction of Chromosome Rearrangements in Saccharomyces Cerevisiae by use of his3 Recombination Substrates," <i>Molecular and Cellular Biology</i> , Vol. 8(10), pp. 4370-4380 (1988)	
/JU/	CN**	Franko et al., "Human C5a Anaphylatoxin: Gene Synthesis, Expression, and REcovery of Biologically Active Material from Escherichia coli," <i>Methods in Enzymology</i> , Vol. 162, pp. 653-668 (1988)	
/JU/	CO**	Gallejo et al., "Myristoylation of the Gal2 Polypeptide, a G Protein a Subunit, is Required for its Signaling and Transformation Functions," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 89, pp. 9695-9699 (1992)	
/JU/	CP**	Garrisen et al., "The N-Terminal Coiled-Coil Domain of B is Essential for Gamma Association: A Model for G-Protein B-Gamma Subunit Interaction," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 90, pp. 7706-7710 (1993)	
/JU/	CQ**	Gerard et al., "Construction and Expression of a Novel Recombinant Anaphylatoxin, C5a-N19, a Probe for the Human C5a Receptor," <i>Biochemistry</i> , Vol. 29(39), pp. 9274-9281 (1990)	
/JU/	CR**	Graf et al., "A Truncated Recombinant a Subunit of G-i13 with a Reduced Affinity for B-Gamma Dimers and Altered Guanosine 5'-3'-O-(Thio) Triphosphate Binding," <i>The Journal of Biological Chemistry</i> , Vol. 267(34), pp. 24307-24314 (1996)	
/JU/	CS**	Gros et al., "Mammalian Multidrug Resistance Gene: Complete cDNA Sequence Indicates Strong Homology to Bacterial Transport Proteins," <i>Cell</i> , Vol. 47, pp. 371-380 (1986)	
/JU/	CT**	Hagen et al., "Evidence the Yeast STE3 Gene Encodes a Receptor for the Peptide Pheromone a Factor: Gene Sequence and Implications for the Structure of the Presumed Receptor," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 83, pp. 1418-1422 (1986)	

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/JU/	CU**	Harbury et al., "A Switch Between Two-, Three- and Four- Stranded Coiled Coils in GCN4 Leucine Zipper Mutants," <i>Science</i> , Vol. 262, pp. 1401-1407 (1993)	
/JU/	CV**	Hartwell, "Mutants of <i>Saccharomyces Cerevisiae</i> Unresponsive to Cell Division Control by Polypeptide Mating Hormone," <i>J. Cell Biology</i> , Vol. 85, pp. 811-822 (1980)	
/JU/	CW**	He et al., "RAM2, an Essential Gene of Yeast, and RAM1 Encode the Two Polypeptide Components of the Farnesyltransferase that Prenylates a-Factor and Ras proteins," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88, pp. 11373-11377 (1991)	
/JU/	CX**	Hrycyna et al., "The <i>Saccharomyces Cerevisiae</i> STE14 Gene Encodes a Methyltransferase that Mediates C-Terminal Methylation of a-Factor and RAS Proteins," <i>The Embo Journal</i> , Vol. 10(7), pp. 1699-1709 (1991)	
/JU/	CY**	Jabbar et al., "Influenza Viral (A/WSN/33) Hemagglutinin is Expressed and Glycosylated in the Yeast <i>Saccharomyces Cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 82, pp. 2019-2023 (1985)	
/JU/	CZ**	Journet et al., "Amino Acids 367-376 of the Gs a Subunit Induce Membrane Association when Fused to Soluble Amino-Terminal Deleted G11 a subunit," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88, pp. 10054-10058 (1991)	
/JU/	CA1**	Julius et al., "Glycosylation and Processing of Prepro-a-Factor through the Yeast Secretory Pathway," <i>Cell</i> , Vol. 36, pp. 309-318 (1984)	
/JU/	CB1**	Julius et al., "Isolation of the Putative Structural Gene for the Lysine-Arginine-Cleaving Endopeptidase Required for Processing of Yeast Prepro-a-Factor," <i>Cell</i> , Vol. 37, pp. 1075-1089 (1984)	
/JU/	CC1**	Julius et al., "Yeast a factor is Processed from a Larger Precursor Polypeptide: The Essential Role of a Membrane-Bound Dipeptidyl Amino-peptidase," <i>Cell</i> , Vol. 32, pp. 839-852 (1983)	
/JU/	CD1**	Kaiser et al., "Many Random Sequences Functionally Replace the Secretion Signal Sequence of Yeast Invertase," <i>Science</i> , Vol. 235, pp. 312-317 (1987)	

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/J/U/	CE1**	Kingsman et al., "The Production of Mammalian Protein in <i>Saccharomyces Cerevisiae</i> ," <i>Tibtech</i> , Vol. 5, pp. 53-57 (1987)	
/J/U/	CF1**	Kramer et al., "HTLV-III gag Protein is Processed in Yeast Cells by the Virus pol-Protease," <i>Science</i> , Vol. 231, pp. 1580-1585 (1986)	
/J/U/	CG1**	Kuchler et al., "Functional Expression of Human mdr1 in the Yeast <i>Saccharomyces Cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 89, pp. 2302-2306 (1992)	
/J/U/	CH1**	Kuchler et al., "Saccharomyces <i>Cerevisiae</i> STE6 Gene Product: A Novel Pathway for Protein Export in Eukaryotic Cells," <i>The Embo Journal</i> , Vol. 8(13), pp.3973-3984 (1989)	
/J/U/	CJ1**	Kurjan, "a-Factor Structural Gene Mutations in <i>Saccharomyces Cerevisiae</i> : Effects on a-Factor Production and Mating," <i>Molecular and Cellular Biology</i> , Vol. 5(4), pp. 787-796 (1985)	
/J/U/	CJ1**	Kurjan et al., "Structure of Yeast Pheromone Gene (MFa): A Putative a-Factor Precursor Contains Four Tandem Copies of Mature a-Factor," <i>Cell</i> , Vol. 30, pp.933-943 (1982)	
/J/U/	CK1**	Lambright et al., "Structural Determinants for Activation of the a-Subunit of a Heterotrimeric G Protein," <i>Nature</i> , Vol. 369, pp. 621-628 (1994)	
/J/U/	CL1**	Leberer et al., "Dominant-Negative Mutants of a Yeast G-Protein B Subunit Identify two Functional Regions Involved in Pheromone Signaling," <i>The Embo Journal</i> , Vol. 11(13), pp. 4805-4813 (1992)	
/J/U/	CM1*	Lee et al., "The G22A Mutant of Gsa Highlights the Requirement for Dissociation of G Protein Subunits," <i>The Journal of Biological Chemistry</i> , Vol. 267(2), pp.1212-1218 (1992)	
/J/U/	CN1**	Lemire et al., The Mitochondrial Targeting Function of Randomly Generated Peptide Sequences Correlates with Predicted Helical Amphiphilicity," <i>The Journal of Biological Chemistry</i> , Vol. 264(34), pp. 20206-20212 (1989)	

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/JUL/	CO1**	Linder et al., "Lipid Modifications of G Protein Subunits," <i>The Journal of Biological Chemistry</i> , Vol. 266(7), pp. 4654-4659 (1991)		
/JUL/	CP1**	Lupas et al., "Do G Protein Subunits Associate via a Three-Stranded Coiled Coil?" <i>FEBS</i> , Vol. 314(2), pp. 105-108 (1992)		
/JUL/	CQ1**	Mackay et al., "Mutations Affecting Sexual Conjugation and Related Processes in <i>Saccharomyces Cerevisiae</i> . II. Genetic Analysis of Nonmating Mutants," <i>Genetics</i> , Vol. 76, pp. 273-288 (1974)		
/JUL/	CR1**	Markby et al., "Separate GTP Binding and GTPase Activating Domains of a Ga Subunit," <i>Science</i> , Vol. 262, pp. 1895-1901 (1993)		
/JUL/	CS1**	Michaelis et al., "The a-Factor Pheromone of <i>Saccharomyces Cerevisiae</i> is Essential for Mating," <i>Molecular and Cellular Biology</i> , Vol. 8(3), pp. 1309-1318 (1988)		
/JUL/	CT1**	Milano et al., "Enhanced Myocardial Function in Transgenic Mice Overexpressing the B2-Adrenergic Receptor," <i>Science</i> , Vol. 264, pp. 582-586 (1994)		
/JUL/	CU1**	Mumby et al., "G-Protein a-subunit Expression, Myristoylation, and Membrane Association in COS Cells," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87, pp. 728-732 (1990)		
/JUL/	CV1**	Nakafuku et al., "Occurrence in <i>Saccharomyces Cerevisiae</i> of a Gene Homologous to the cDNA Coding for the a-subunit of Mammalian G Proteins," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 84, pp. 2140-2144 (1987)		
/JUL/	CW1*	Nakayama et al., "Common Signal Transduction System Shared by STE2 and STE3 in Haploid Cells of <i>Saccharomyces Cerevisiae</i> : Autocrine Cell-Cycle Arrest Results from Forced Expression of STE2," <i>The Embo Journal</i> , Vol. 6(1), pp. 249-254 (1987)		
/JUL/	CX1**	Neer et al., "The Amino Terminus of a G Protein a Subunits is Required for Interaction with Beta-Gamma," <i>The Journal of Biological Chemistry</i> , Vol. 263(18), pp. 8996-9000 (1988)		

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/JU/	CY1**	Noel et al., "The 2.2 A Crystal Structure of Transducin-a Complexed with GTP-Gamma-S," <i>Nature</i> , Vol. 366, pp. 654-663 (1993)	
/JU/	CZ1**	Oeda et al., "Expression of Rat Liver Cytochrome p-450MC cDNA in Saccharomyces Cerevisiae," <i>DNA</i> , Vol. 4(3), pp.201-203 (1985)	
/JU/	CA2**	Ogden et al., "Efficient Expression of the Saccharomyces Cerevisiae PGK Gene Depends on an Upstream Activation Sequence but does not require TATA Sequences," <i>Molecular and Cellular Biology</i> , Vol. 6(12), pp. 4335-4343 (1986)	
/JU/	CB2**	Pronin et al., "Interaction Between G-Protein B and Gamma Subunit Types is Selective," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 89, pp. 6220-6224 (1992)	
/JU/	CC2**	Rarick et al., "A Site on Rod G Protein a Subunit that Mediates Effector Activation," <i>Science</i> , Vol. 256, pp. 1031-1033 (1992)	
/JU/	CD2**	Schafer et al., "Enzymatic Coupling of Cholesterol Intermediates to a Mating Pheromone Precursor and to the Ras Protein," <i>Science</i> , Vol. 249, pp. 1133-1139 (1990)	
/JU/	CE2**	Schafer et al., "Genetic and Pharmacological Suppression of Oncogenic Mutations in RAS Genes of Yeast and Humans," <i>Science</i> , Vol. 245, pp. 379-385 (1989)	
/JU/	CF2**	Scharer et al., "Mammalian p53 can Function as a Transcription Factor in Yeast," <i>Nucleic Acids Research</i> , Vol. 20(7), pp. 1539-1545 (1992)	
/JU/	CG2**	Sikorski et al., "A System of Shuttle Vectors and Yeast Host Strains Designed for Efficient Manipulation of DNA in Saccharomyces Cerevisiae," <i>Genetics</i> , Vol. 122, pp. 19-27 (1989)	
/JU/	CH2**	Singh et al., "Saccharomyces Cerevisiae Contains two Discrete Genes Coding for the a-Factor Pheromone," <i>Nucleic Acids Research</i> , Vol. 11(12), pp. 4049-4063 (1983)	

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/JU/	CL2**	Slepek et al., "Mutational Analysis of G Protein a Subunit Gαa Expressed in Escherichia Coli," <i>The Journal of Biological Chemistry</i> , Vol. 268(2), pp. 1414-1423 (1993)	
/JU/	CJ2**	Spiegel et al., "The G Protein Connection Molecular Basis of Membrane Association," <i>TIBS</i> , Vol. 16, pp. 338-341 (1991)	
/JU/	CK2**	Steube et al., "a-Factor-Leader-Directed Secretion of Recombinant Human-Insulin-like Growth Factor I from <i>Saccharomyces Cerevisiae</i> ," <i>Eur. J. Biochem.</i> , Vol. 198, pp. 651-657 (1991)	
/JU/	CL2**	Stevenson et al., "Constitutive Mutants of the Protein STE11 Activate the Yeast Pheromone Response Pathway in the Absence of the G Protein," <i>Genes & Development</i> , Vol. 6, pp. 1293-1304 (1992)	
/JU/	CM2*	Strubin et al., "Yeast and Human TFIID with Altered DNA-Binding Specificity of TATA Elements," <i>Cell</i> , Vol. 68, pp. 721-730 (1992)	
/JU/	CN2**	Struhl, "Constitutive and Inducible <i>Saccharomyces Cerevisiae</i> Promoters: Evidence of Two Distinct Molecular Mechanisms," <i>Molecular and Cellular Biology</i> , Vol. 6(11), pp. 3847-3853 (1986)	
/JU/	CO2**	Struhl et al., "High-Frequency Transformation of Yeast: Autonomous Replication of Hybrid DNA Molecules," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 76(3), pp. 1035-1039 (1979)	
/JU/	CP2**	Struhl et al., "Two Related Regulatory Sequences are Required for Maximal Induction of <i>Saccharomyces Cerevisiae</i> his3 Transcription," <i>Molecular and Cellular Biology</i> , Vol. 7(1), pp. 104-110 (1987)	
/JU/	CQ2**	Sullivan et al., "Identification of Receptor Contact Site Involved in Receptor-G Protein Coupling," <i>Nature</i> , Vol. 330, pp. 758-760 (1987)	
/JU/	CR2**	Teem et al., "Identification of Revertants for the Cystic Fibrosis F508 Mutation using STE6-CFTR Chimeras in Yeast," <i>Cell</i> , Vol. 73, pp. 335-345 (1993)	

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/JU/	CS2**	Thomas et al., "G-Protein ac Subunit: Mutation of Conserved Cysteines Identifies a Subunit Contact Surface and Alters GDP Affinity," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 90, pp. 10295-10299 (1993)	
/JU/	CT2**	Walker et al., "Distantly Related Sequences in the a-and-B-subunits of ATP Synthase, Myosin, Kinases and Other ATP-requiring Enzymes and a Common Nucleotide Binding Fold," <i>The Embo Journal</i> , Vol. 1(8), pp. 945-951 (1982)	
/JU/	CU2**	Waters et al., "Prepro-a-Factor has a Cleavable Signal Sequence," <i>The Journal of Biological Chemistry</i> , Vol. 263(13), pp. 6209-6214 (1988)	
/JU/	CV2**	Whiteway et al., "Genetic Identification of Residues Involved in Association of a and B G-Protein Subunits," <i>Molecular and Cellular Biology</i> , Vol. 14(5), pp. 3223-3229 (1994)	
/JU/	CW2	Stedman's Medical Dictionary 27th Edition, 2000, Lippincott Williams and Wilkins, entry: Heterologous (definition, page 817)	
/JU/	CX2**	Kang et al., "Effects of Expression of Mammalian G α and Hybrid Mammalian-Yeast G α Proteins on the Yeast Pheromone Response Signal Transduction Pathway," <i>Molecular and Cellular Biology</i> , Vol. 10(6), pp. 2582-2590 (1990)	
/JU/	CY2**	Manfredi et al., "Autocrine Stimulation of Yeast Through Human G-coupled Receptors," <i>J. Cell. Biochem.</i> , Vol. 18B, pp. 224 (1994)	
/JU/	CZ2**	King et al., "Control of Yeast Mating Signal Transduction by a Mammalian beta2-Adrenergic Receptor and Gs Alpha Subunit," <i>Science</i> , Vol. 250, pp. 121-123 (1990)	
/JU/	CA3**	Cwiria et al., "Peptides on Phage: A Vast Library of Peptides for Identifying Ligands," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87, pp. 6378-6382 (1990)	
/JU/	CB3**	Devlin et al., "Random Peptide Libraries: A Source of Specific Protein Binding Molecules," <i>Science</i> , Vol. 249, pp. 404-406 (1990)	

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/JU/	CC3**	Lew et al., "Isolation of Three Novel Human Cyclins by Rescue of G1 Cyclin (Cln) Function in Yeast," <i>Cell</i> , Vol. 66, pp. 1197-1206 (1991)	
/JU/	CD3**	Scott et al., "Searching for Peptide Ligands with an Epitope Library," <i>Science</i> , Vol. 249, pp. 386-390 (1990)	
	CE3**	Whiteway et al., "Dominant Negative Selection of Heterologous Genes: Isolation of Candida Albicans Genes that Interact with Saccharomyces Cerevisiae Mating Factor-induced Cell Cycle Arrest," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 89, pp. 9410-9414 (1992)	
	GF6**	Koff et al., "Human Cyclin E, A New Cyclin That Interacts with Two Members of the CDC2 Gene Family," <i>Cell</i> , Vol. 66, pp. 1217-1228 (1991)	
	CC6**	Xiong et al., "Human D-Type Cyclin," <i>Cell</i> , Vol. 65, pp. 601-609 (1991)	
	CH3**	Raymond et al., "Functional Complementation of Yeast ste6 by a Mammalian Multidrug Resistance mol Gene," <i>Science</i> , Vol. 256, pp. 232-234 (1992)	
	CL3**	Murphy et al., "Autocrine Stimulation of Yeast Through Human G-Coupled Receptors," <i>J. of Cell Biochem.</i> , Vol. 18B, pp. 224 (1994)	
	GF6**	Chien et al., "The Two-Hybrid System: A Method to Identify and Clone Genes for Proteins that Interact with a Protein of Interest," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88, pp. 9578-9582 (1991)	
	CK3	Fields et al., "A Novel Genetic System to Detect Protein-Protein Interactions," <i>Nature</i> , Vol. 340, pp. 245-246 (1989)	
	CL3	Gyuris et al., "Cdc1, A Human G1 and S Phase Protein Phosphatase that Associates with Cdc2," <i>Cell</i> , Vol. 75, pp. 791-803 (1993)	

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	CN3**	Zerwe et al., "Mx1, A Protein that Specifically Interacts with Mx to Bind Myx Max Recognition Sites," <i>Cell</i> , Vol. 72, pp. 223-232 (1993)		
	/JLJ/ CO3	Pausch, <i>TIBTECH</i> , Vol. 15, pp. 487-494 (1997)		

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